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Catalog 1976
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HOW TO ENROLL IN AN INDEPENDENT STUDY COURSE

1. Read the General Information section of this catalog. You will be expected to know and follow all the rules and policies stated in this section.
2. Select a course. If you are completing a degree program, *check with your advisor or Academic Dean to be certain* that the course you have chosen is acceptable for your particular program.
3. Complete the application in the center of this catalog. Bring or mail the application and your fees to:

   Independent Study by Extension
   UNC Extension Division
   121 Abernethy Hall
   Chapel Hill, NC 27514

   Be sure to include postage. If you wish to purchase the texts from our bookroom, include the prices listed after the course description. Checks or money orders should be made payable to UNC Independent Study.
4. You may begin work as soon as you receive your materials. Submit your assignments as you complete them.
5. Contact Independent Study if you have problems or questions concerning any aspect of your course.

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COURSE DESCRIPTIONS

KEY TO SYMBOLS IN COURSE DESCRIPTIONS

(3 s.h.), (4 q.h.) Indicates the hours of credit (semester hours, quarter hours)

Smith, 25, prerequisite: Latin 1 or equivalent The instructor's name, the number of assignments in the course, and any prerequisites for the course. Prerequisites refer to courses on the campus from which the course is offered.

CH, NCSU Code for campus offering course:
ASU — Appalachian State University
CH — University of North Carolina at Chapel Hill
ECU — East Carolina University
G — University of North Carolina at Greensboro
NCSU — North Carolina State University

ANTHROPOLOGY

Anth. 41 CH AN INTRODUCTION TO ANTHROPOLOGY (3 s.h.). An examination of a broad range of questions asked by anthropologists, beginning with the central question, What does it mean to be human? The course views man as a physical and an intellectual being. *Markman, 15.*

Alland, *Evolution and Human Behavior* (1973), $2.50
Alland, *Human Diversity* (1973), $1.95
Brown. *Manchild in the Promised Land* (1965), $1.50
Chagnon, *Yanomamo, the Fierce People* (1968), $3.50
Deetz, *Invitation to Archaeology* (1967), $1.45
Downs, *Cultures in Crisis* (1971), $2.95
Farb, *Man's Rise to Civilization* (1971), $1.65
Kummer, *Primate Societies* (1971), $2.95
Kurten, *Not From the Apes* (1972), $1.95
Lienhardt, *Social Anthropology* (1972), $1.95

ART

Art 31 CH HISTORY OF WESTERN ART (ANCIENT & MEDIEVAL) (4 s.h.). A systematic survey of Western art from the Egyptians to Giotto. Art 31 and 32 together form a survey of the history of Western art, but Art 31 is not a prerequisite to Art 32. **Note: This course was in preparation at the time the catalog went to press; please inquire before enrolling.** *Schnorrenberg.*

de la Croix and Tansey, *Gardner's Art Through the Ages*, Rev., 6th ed. (1975), $

BUSINESS ADMINISTRATION

B.A. 71 CH ACCOUNTING PRINCIPLES I (3 s.h.). Fundamental principles of financial accounting are covered and applied to the recording of business activities and to the reporting of the financial results for corporations, partnerships, and single proprietorships. *Williams, 24.*

Slavin and Reynolds, *Basic Accounting*, 3rd ed. (1975), $13.95
Sanders, *Student's Self-Study Guide to Accompany Basic Accounting,* 3rd ed. (1975), $5.95
Accounting Pads, set of 2, $3.60

B.A. 73
CH

INTRODUCTION TO MANAGEMENT ACCOUNTING (3 s.h.). A balanced, flexible approach to the study of the accounting function in management of retail, wholesale, selling, and administrative situations, as well as manufacturing. The emphasis is on the analytical use of accounting information for planning and control. *Williams, 21, prerequisite; BA 71 or equivalent; Designed for non-accounting majors.*

Horngren, *Accounting for Management Control,* 2nd ed. (1970), $11.95
Accounting Pads, set of 2, $3.60

B.A. 4850
ASU

REAL ESTATE (3 s.h.). The economics of real estate, legal instruments, marketing, and management are the subjects covered. Includes valuation, appraisal, and entrepreneurship. **Note: This course was in preparation at the time the catalog went to press; please inquire before enrolling.** *Weaver, 20, prerequisites: BE 2150, ECO 2020; prerequisites are waived for non-credit students and credit students not pursuing a degree.*

O'Donnell and Maleady, *Principles of Real Estate* (1975), $

CHEMISTRY

Chem. 11
CH

GENERAL CHEMISTRY (3 s.h.). Topics covered include atoms, molecules, moles, gas laws, matter with a charge, stoichiometry, elements and their periodic properties, oxidation, coordination and covalence, quantum theory and atomic structure, electronic structure and chemical properties, covalent bonding, and coordination compounds. *Hatfield and Pedersen, 10.*

Dickerson, Gray, Haight, *Chemical Principles* (1970), $12.95
Lassila, et. al., *Programmed Reviews of Chemical Principles* (1970), $5.50
Hutton, *A Study Guide to Chemical Principles* (1970), $3.50
Slide Rule, $1.95

Chem. 21
CH

GENERAL CHEMISTRY (3 s.h.). Topics covered include carbon compounds, nuclear chemistry, bonding in liquids and solids, energy and entropy in chemical systems, chemical equilibrium, ionic equilibria, heterogeneous equilibria, oxidation-reduction equilibria, rates and mechanisms of chemical reactions. *Hatfield and Pedersen, 10, prerequisite: Chemistry 11.*

Same texts as for Chemistry 11

DENTAL PROGRAMS

CH

DENTAL ASSISTING (non-credit). A complete seven-course program equivalent to one academic year of study includes the knowledges and skills recommended by the Council on Dental Education of the American Dental Association. Completion of all courses in sequence will qualify a person to be a candidate for certification by the American Dental Assistants Association. A brochure giving detailed information on the program may be requested from Independent Study.

CH

DENTAL LABORATORY TECHNOLOGY (non-credit). A series of courses on the theory and skills required of a laboratory technician is designed to teach novice dental laboratory technicians, to teach more experienced technicians who wish training in other areas, and to prepare individuals to qualify for and become Certified Dental Technicians. For complete information on the program, write Independent Study.

CH

DENTAL RADIOLOGY FOR AUXILIARY PERSONNEL (non-credit). Equivalent to a 40-hour residence program, this course is designed to meet the Guidelines devolped by the American Academy of Dental Radiology. It prepares persons to perform most dental radiographic procedures. *Access to dental radiographic facilities is required.* A brochure giving more details on the course may be requested from Independent Study.

DRAMATIC ART

D.A. 15 CH INTRODUCTION TO THE THEATRE (3 s.h.). A survey of theatre as a developing art form, this course includes dramatic literature, the history of theatre, crafts, and a review of the roots of the contemporary stage. *Nielsen, 15.*

Hatlen, *Drama: Principles & Plays* (1967), $6.95
Hatlen, *Orientation to Theatre* (1972), $7.50
Chekhov, *The Cherry Orchard* (1965), $.70

D.A. 155 CH PLAYWRITING (3 s.h.). Due to the creative nature of this course there is no set sequence of assignments. The student can expect to write one or more plays under the guidance and direction of the instructor. *Nielsen.*

ECONOMICS

EB 201 NCSU ECONOMICS I (3 s.h.). An introductory study of economic activity with emphasis on national economic problems. *Thompson, 15.*

McConnell, *Economics,* 3rd. ed. (1966), $9.40 (used)

EB 202 NCSU ECONOMICS II (3 s.h.). An introductory study of the determination of prices, wages, and value; analysis of the process and principles by which an economy allocates resources. *Thompson, 18, prerequisite: EC 201.*

McConnell, *Economics,* 3rd. ed. (1966), $9.40 (used)

ACC 260 NCSU ACCOUNTING I — CONCEPTS OF FINANCIAL REPORTING (3 s.h.). A study of financial reporting concepts, the information generating process, income measurement, resource valuation, corporate equity measurement, and reporting practices. Includes an introduction to internal controls, and merchandising and manufacturing inventories. *McBurney, 18.*

Walgenbach, *Accounting, An Introduction* (1973), $11.75
Walgenbach, *Working Papers* (1973), $4.25

EB 307 NCSU BUSINESS LAW I (3 s.h.). A course dealing with elementary legal concepts, agency, negotiable instruments, sales of personal property and insurance. Uniform commercial code considered under all titles applicable. *Thompson, 16, prerequisite: EC 201 or EC 212.*

Anderson, *Business Law,* 9th ed. (1972), $13.75

EB 308 NCSU BUSINESS LAW II (3 s.h.). Deals with real property, bailments, partnerships, corporations, chattel mortgages on real estate, landlord and tenant, insurance, wills, suretyship, conditional sales and bankruptcy. Uniform commercial code considered under all titles applicable. *Thompson, 16, prerequisite: EC 307.*

Anderson, *Business Law,* 9th ed. (1972), $13.75

EDUCATION

Ed. 41 CH EDUCATION IN AMERICAN SOCIETY (3 s.h.). The student views and evaluates the historical, political, social, and philosophical forces which affect the nature of American Education; the organization and structure of the school system; and the principal issues facing American education today. *Hennis, 20.*

DeYoung and Wynn, *American Education,* 7th ed. (1972), $11.50
Ehlers, *Crucial Issues in Education,* 4th ed. (1969), $6.50
Kneller, *Introduction to the Philosophy of Education* (1971), $3.50

Ed. 71 CH

EDUCATIONAL PSYCHOLOGY (3 s.h.). Topics discussed are psychological principles pertinent to successfully guiding the growth, learning, and adjustment of children and youth. The teacher, the learner, and the teacher-learning process are studied. *Mizelle, 10.*

DeCecco. *The Psychology of Learning and Instruction: Educational Psychology,* 2nd ed. (1974), $10.95

Ed. 99 CH

THE SECONDARY SCHOOL (3 s.h.). This course emphasizes the purpose and practices of the modern secondary school in providing for the education of the adolescent boy or girl. Objectives, current issues and trends, and newer methods of instruction are included. Emphasis is given to new developments which modify the secondary school curriculum as well as methods of instruction. *Tarbet, 15.*

Alexander, Saylor and Williams, *The High School Today and Tomorrow* (1971), $8.50

EDCI 100 CH

CURRICULUM CONSTRUCTION (3 s.h.). Curriculum as a Decision Making Process is a course designed to help the student identify basic determinants of curriculum-making and to introduce the student to various approaches or models in curriculum. The emphasis is upon applying knowledge from curriculum determinants to curriculum decision making. The course is organized around modules which list instructional goals, learning activities and readings. *Burke, 10.*

Ronald and Beatrice Gross, *Radical School Reform* (1971), $2.95
Hass, *Readings in Curriculum,* 2nd ed. (1970), $6.95

ED 100 NCSU

INTRODUCTION TO INDUSTRIAL EDUCATION (2 s.h.). The place of vocational education in a program of public education and the fundamental principles upon which this work is based. *Shore, 19.*

Roberts, *Vocational & Practical Arts Education,* 3rd ed. (1971), $13.95

EDSP 130 CH

INTRODUCTION TO THE STUDY OF EXCEPTIONAL CHILDREN (3 s.h.). A comprehensive survey of the various areas of exceptionality, including the gifted. The course combines reading and study with visits and observations in the student's own community. The emphasis is on educationally related problems of adaptation for children and youth who fall into the traditional categories of mental retardation, hearing and vision limitations, and so on. *Weiss, 24.*

Kirk, *Educating Exceptional Children,* 2nd ed. (1972), $12.50
Jones, *Problems and Issues in the Education of Exceptional Children* (1971), $7.50

Ed. 156 CH

THE TEACHING OF MATHEMATICS IN THE ELEMENTARY SCHOOL (3 s.h.). This course deals with the organization and selection of subject matter in mathematics with modern methods of teaching the subject in the elementary school. NOTE: Education 156 is equivalent to EDCI 237 on campus. However, the independent study course may not be taken for graduate credit. *Ballew, 25.*

Ballew, *Teaching Children Mathematics* (1973), $11.50

Ed. 171 CH

GROWTH AND DEVELOPMENT OF THE SCHOOL CHILD (3 s.h.). The important areas of growth and development are studied with an attempt to introduce relevant research which focuses on translation of growth and development principles into new concepts and methods as they might apply to the educational process. NOTE: Education 171 is equivalent to EDFO 101 on campus. However, the independent study course may not be taken for graduate credit. *Pryzwansky, 24.*

Hurlock, *Child Development,* 4th ed. (1964), $10.95

Baller, *Readings in the Psychology of Human Growth and Development* (1969), $6.25

Rosenblith and Allinsmith, *The Causes of Behavior: Readings in Child Development and Educational Psychology,* 2nd ed. (1966), $7.95

ELECTRICAL ENGINEERING

EE 211 NCSU ELECTRIC CIRCUITS I, THEORY (3 s.h.). This is the classroom part of EE 201. The laboratory part is listed as EE 213 in the summer school catalog. The course covers fundamental laws of electric circuits and introduction to transient and steady state sinusoidal analysis. *Seagraves, 21, prerequisite; MA 102.*

Hayt, *Engineering Circuit Analysis,* 2nd ed. (1971), $18.50

ENGLISH

Eng. 0 CH ENGLISH COMPOSITION (non-credit). Designed to improve the writing skills of individual students, English c0 is taught on a tutorial basis. Students submit examples of their writing to be evaluated by the instructor, who then assigns work to improve the particular problems of the student. This course may be used to remove a composition condition. *Laughter, Leland.* Fee $60.00.

Leggett, *Prentice-Hall Handbook for Writers,* 4th ed., $5.95
Kreuzer, *Studies in Prose Writing,* 3rd ed., $6.50

Eng. 1 CH ENGLISH COMPOSITION AND RHETORIC (3 s.h.). This course emphasizes the writing of effective paragraphs and their combination into longer compositions, culminating in a study of the research paper. Coincidental to the development of writing facility will be the development of facility in the close reading of essays. *Flora, 25.*

Kane and Peters, *Writing Prose: Techniques and Purposes* (1969). $3.95
Hodges and Whitten, *Harbrace College Handbook,* 7th ed., (1972), $6.50
Upon request: *American College Dictionary* (1973), $9.95

Eng. 111 NCSU COMPOSITION AND RHETORIC (3 s.h.). Intensive study and practice in the basic forms and principles of expository communication. *Joseph, 23.*

Hodges, *Harbrace College Handbook,* 7th ed., (1972), $6.50
Levin, *Prose Models,* 2nd ed. (1970), $5.95
American College Dictionary (upon request) (1973), $9.95
Upon request: *American College Dictionary* (1973), $9.95

NOTE: A STUDENT SEEKING DEGREE CREDIT AT NORTH CAROLINA STATE UNIVERSITY MAY RECEIVE SUCH CREDIT THROUGH AN INDEPENDENT STUDY COURSE FOR EITHER ENG 111 OR ENG 112 BUT NOT FOR BOTH.

Eng. 2 CH ENGLISH COMPOSITION AND RHETORIC (3 s.h.). The purpose of English c2 is to develop fluency and effectiveness in writing and to develop critical and thoughtful reading habits. Although there is a limited review of punctuation and grammar, the emphasis is on using these for more effective writing rather than on learning basic principles. *Flora, 24.* **Eng. 1 and 2 or equivalent are prerequisite to all other Chapel Hill Eng. courses.**

Baker, *The Practical Stylist,* 3rd ed. (1973), $3.95
Baker, *The Essayist,* 2nd ed. (1972), $3.95
Sale, *Wuthering Heights, Emily Bronte,* (Norton Critical Edition) (1963), $2.25
Upon request: *American College Dictionary* (1970), $9.95

Eng. 112 NCSU COMPOSITION AND READING (3 s.h.). Continued practice in expository writing; introduction to literary types; collateral reading. *Joseph, 18, prerequisite: ENG 111.*

Donohue, *A Casebook on The Grapes of Wrath* (1968), $3.95
Hodges, *Harbrace College Handbook,* 7th ed. (1972), $6.50
Simonson, *Trio, A Book of Stories, Plays & Poems,* 3rd ed. (1970), $7.95
Steinbeck, *The Grapes of Wrath* (1966), $1.50
American College Dictionary (upon request) (1973), $9.95
Upon request: *American College Dictionary* (1973), $9.95

NOTE: A STUDENT SEEKING DEGREE CREDIT AT NORTH CAROLINA STATE UNIVERSITY MAY RECEIVE SUCH CREDIT THROUGH AN INDEPENDENT STUDY COURSE FOR EITHER ENG 111 OR ENG 112 BUT NOT FOR BOTH.

Eng. 21 CH

ENGLISH LITERATURE (3 s.h.). This course is an introduction to English literature through the study of representative works of Chaucer, Shakespeare, and Milton. *Barnes, 25.*

Dunn, *A Chaucer Reader* (1952), $4.50
Craig, *An Introduction to Shakespeare* (1952), $4.25
Hanford, *The Poems of John Milton.* 2nd ed. (1953), $5.50
Holman, *A Handbook to Literature* (1960), paperback, $3.90

Eng. 261 NCSU

ENGLISH LITERATURE I (BEGINNINGS TO 1790) (3 s.h.). A survey of English literature from the Anglo-Saxon invasion to the Romantic period. *Hargrave, 23, prerequisites: ENG 111, ENG 112.*

Abrams, *Norton Anthology of English Literature,* Vol. I., rev. (1968), $6.90 (used)

Eng. 22 CH

ENGLISH LITERATURE (3 s.h.). English literary masterpieces of the eighteenth and nineteenth centuries from Swift through Arnold are surveyed. *Mills, 25.*

Baugh and McClelland, *English Literature: A Period Anthology* (1954), $12.00 (used only)
Shelley, *Frankenstein,* $.75
Dickens, *Great Expectations.* $.95
Defoe, *Robinson Crusoe,* $.50
Smollett, *Humphry Clinker,* paperback, $2.95

Eng. 262 NCSU

ENGLISH LITERATURE II (1790 TO PRESENT) (3 s.h.). A survey of English literature from the Romantic period to the present day. This course may be taken either as a continuation of ENG 261 or as an independent course. *Hargrave, 23, prerequisites: ENG 111, ENG 112.*

Abrams, *Norton Anthology of English Literature,* Vol. II, rev. (1968), $6.90 (used)
Hodges, *Harbrace College Handbook,* 7th ed. (1972), $6.50

Eng. 265 NCSU

AMERICAN LITERATURE I (BEGINNINGS TO 1850) (3 s.h.). Masterpieces of American literature in their historical settings, from the Early Colonial Period to 1850. *MacKethan, 23, prerequisites: ENG 111, ENG 112.*

Bradley, *American Tradition in Literature,* Vol. I (1967), $6.90 (used)
*Cooper, *The Deerslayer,* $.95
*Cooper, *The Pathfinder,* $.95
*Cooper, *Last of the Mohicans,* $.95
*Cooper, *The Prairie,* $1.25
Melville, *Moby Dick,* $.95

*Only one Cooper book is required for this course. You may choose any one of the four listed above.

Eng. 266 NCSU

AMERICAN LITERATURE II (1850 TO PRESENT) (3 s.h.). Masterpieces of American literature in their historical settings, 1850 to present. *Joseph, 23, prerequisites: ENG 111, ENG 112.*

Bradley, *American Tradition in Literature,* Vol. II, 3rd. ed. (1967), $6.90 (used)
Dreiser, *Sister Carrie* (1962), $.95
Miller, *Death of a Salesman* (1949), $1.45
Albee, *American Dream & Zoo Story,* $.75
Oates, *Wheel of Love* (1974), $1.50

Eng. 24 CH

CONTEMPORARY LITERATURE (3 s.h.). English and American fiction, poetry, the essay during the last ten years. Emphasis on themes as well as form in the works of authors Joan Didion, Kurt Vonnegut, Ken Kesey, R. D. Laing, Harold Pinter, Anne Sexton, Gary Snyder, Robert Lowell, James Wright, among others. *Brookhouse, 15.*

Poulin, *Contemporary American Poetry* (1971), $6.95
Pinter, *The Lover, Tea Party, the Basement, Two Plays and a film script* (1967), $2.95

Laing, *The Politics of Experience* (1967), $1.75
Didion, *Slouching Towards Bethlehem* (1962), $1.95
Kesey, *One Flew Over the Cuckoo's Nest* (1962), $1.25
Vonnegut, *Slaughterhouse-Five* (1969), $1.95
MacDonald, *The Goodbye Look* (1969), $.95

Eng. 32 CH BUSINESS ENGLISH (3 s.h.). The vocabulary, forms, and literature of the business profession are studied with special attention to letters of application and inquiry, routine, collection, adjustment, and sales letters; business reports; and technical articles. Specimen letters are criticized and actual business problems solved through written work. *Shea, 22.*

Menning and Wilkinson, *Communicating Through Letters and Reports,* 5th ed. (1972), $12.95
Lesikar, *Report Writing for Business* (1969), 3rd ed. $9.75

Eng. 32a CH BUSINESS ENGLISH (2 s.h.). This course is similar to English 32. Students should not take both courses. *Shea, 16.*

Menning and Wilkinson, *Communicating Through Letters and Reports,* 5th ed. (1972), $12.95

Eng. 321 NCSU THE COMMUNICATION OF TECHNICAL INFORMATION (3 s.h.). Intensive training in the fundamentals of business and industrial expository and persuasive writing, with emphasis on the most effective ways of presenting information in clear, forthright, and efficient writing, and in a fitting and logical structure. Attention is given to the basic conventions of punctuation, grammar, and usage; to the development of sentence style and structure; to methods of developing good paragraphs; to organization of reports and other business documents; and to business correspondence. *Dandridge, 20.*

Pickett, *Writing and Reading in Technical English* (1970), $9.50

Eng. 34F CH CREATIVE WRITING: THE SHORT STORY (3 s.h.). Students are introduced to the practice of basic fiction techniques and write numerous short papers as well as three full stories, one of which will be revised as a final examination. Literary stories by well known writers are read and analyzed. Each student is required to keep a journal for which supplementary assignments are made. Emphasis is on individual creative work and a tutorial relationship with the instructor. NOTE: Due to the creative nature of the work in this course, both on the part of the student and the instructor, students are advised not to take it under duress of receiving credit by a specific deadline. *Williams.*

Dietrich & Sundell, *The Art of Fiction,* 2nd ed. (1974), $6.95

***Eng. 35 CH** CREATIVE WRITING: THE SHORT STORY (Advanced) (3 s.h.). This course seeks to discover and develop students' creative writing abilities in the planning and preparing of short stories. There are no set assignments, but students accomplish the equivalent of three semester hours' work by writing five or six stories. NOTE: Due to the creative nature of the work in this course, both on the part of the student and the instructor, students are advised not to take it under duress of receiving credit by a specific deadline. *Eaton, prerequisite: English 34F or equivalent.*

***Eng. 35P CH** CREATIVE WRITING: POETRY (3 s.h.). Advanced poetry writing. There are no set assignments, but the student accomplishes the equivalent of three semester hours' work in a tutorial realtionship with the instructor. NOTE: Due to the creative nature of the work in this course, both on the part of the student and the instructor, students are advised not to take it under duress of receiving credit by a specific deadline. *Eaton, prerequisite: an introductory course in poetry writing or permission of the instructor.*

**NOTE: Applicants for English 35 or 35P who are not working for degree credit should send to Independent Study, for the instructor's consideration, a sample manuscript of their work and a fee of $3.00. They will be advised to enroll for English 34F, or English 35, or English 35P on the basis of the manuscript.*

Eng. 36 CH MODERN ENGLISH GRAMMAR (3 s.h.). An introductory course in English linguistics. Topics include the phonology (the sound system), morphology (structure of words), and syntax (how words are combined into sentences) of current American English. The course also clarifies misconceptions about dialect, "correct" usage, the relationship between languages, and the relation of sound to writing. *Crowley, 15.*

Bolinger, *Aspects of Language* (1968), $6.95
Alyeshmerni and Taubr, *Working with Aspects of Language* (1970), $5.50

Eng. 43 CH THE ENGLISH NOVEL (3 s.h.). The development of the English novel, particularly in the eighteenth and nineteenth centuries, is studied. Works by Fielding, Smollett, Jane Austen, Scott, Dickens, Thackeray, and George Eliot receive special attention. *Barnes, 25.*

Wagenknecht, *Cavalcade of the English Novel* (1954), $10.00
Fielding, *Tom Jones,* paperback, $2.00
Smollett, *Humphry Clinker,* paperback, $2.95
Austen, *Pride and Prejudice,* paperback, $.50, hardback, $2.95
Scott, *The Heart of Midlothian,* paperback, $1.95
Thackeray, *Vanity Fair,* paperback, $1.25 (hardback, $1.95)
Eliot, *Adam Bede,* paperback, $.75
Dickens, *Little Dorrit,* $2.75

Eng. 58 CH SHAKESPEARE (3 s.h.). About twenty of Shakespeare's representative comedies, tragedies, and histories will be studied. *Mills, 25.*

Neilson and Hill, *The Complete Plays and Poems of William Shakespeare,* New Cambridge ed. (1942), $13.50
Ribner, *William Shakespeare* (1969), $2.75

Eng. 81 CH AMERICAN LITERATURE: BEGINNINGS TO 1865 (3 s.h.). This survey course begins with a brief examination of selected works of such figures as Edward Taylor, Benjamin Franklin, and Jonathan Edwards, but the major focus of the course falls upon Emerson, Thoreau, Poe, Hawthorne, and Melville. *Bain, 25.*

Bradley, Beatty, and Long, *The American Tradition in Literature,* Vol. I, 3rd ed. (1967), $6.95
Holman, *A Handbook to Literature,* Based on the original by Thrall and Hibbard, 3rd ed. (1972), $3.90

Eng. 95 CH ENGLISH AND AMERICAN DRAMA OF THE TWENTIETH CENTURY (3 s.h.). Modern American and English drama with emphasis on works since the 1920's and such playwrights as O'Neill, Odets, Albee, and Pinter. *Avery, 24.*

Anderson. *Four Verse Plays* (1959), $3.95
Clurman, Ed., *Famous American Plays of the 1930's* (1959), $.95
Kernan, *Classics of the Modern Theater* (1965), $5.95
Macgowan, *Famous American Plays of the 1920's* (1959), $.95
Rice, *Three Plays* (1965), $2.25
Shaw, *Plays* (1960), $1.25
Pinter, *The Homecoming* (1966), $1.95
Strindberg, *Seven Plays* (1960), $1.25
Warnock, *Representative Modern Plays, American* (1952), $5.95
Weiss, *Marat/Sade* (1965), $3.95

ENVIRONMENTAL HEALTH

EHLT 220 ECU WATER SUPPLIES AND WASTE WATER TREATMENT (4 q.h., equivalent to 2 2/3 s.h.). Water and waste water treatment, municipal, semi-private and individual systems, with a review of sources, chemical and bacteriological quality, and water pollution. **Students taking this course by independent study will be expected, with the assistance of the instructor or Indepedent Study, to make arrange-**

ments to work with designated laboratories and health departments in their areas to complete the necessary laboratory exercises and field observations. Note: This course was in preparation at the time the catalog went to press; please inquire before enrolling. *Kane, prerequisites: BIOL 110, CHEM 34, 35, 36, or departmental permission;* **prerequisites will be waived for non-credit students.**

GEOGRAPHY

Geog. 38
CH

PHYSICAL GEOGRAPHY. (3 s.h.). A study of the major elements of man's physical environment. The nature, origin and distribution of the world's climates, soils, vegetation and landforms are considered, and interrelationships between them noted. Particular attention is given to the environment of North America. *Robinson, 22.*

Strahler. *Introduction to Physical Geography,* 3rd ed. (1973), $12.95
Hare, *The Restless Atmosphere* (1963), $1.95
Upon request: *Man's Domain: A Thematic Atlas of the World* (1970), $4.95

Geog. 157
CH

GEOGRAPHY OF ANGLO-AMERICA (3 s.h.). Topical and regional geography of America north of the Rio Grande, including elements of the physical, economic, and cultural landscape. The couse begins with an examination of several topical subjects including map interpretation and the physiography and climate of Anglo-America. Thereafter, Anglo-America is divided into regions that are examined separately. After all the regions have been covered, the last several assignments return to topical theme. *Florin, 24.*

White, Foscue, and McKnight, *Regional Geography of Anglo-America,* 3rd ed. (1964), $8.25 (used)
Oxford Regional Economic Atlas of the U.S. and Canada, $6.50
Maps, $.48

GY 208
NCSU

ENVIRONMENTAL PHYSICAL GEOGRAPHY (3 s.h.). Study of the physical conditions on the earth's surface that influence human activities; factors of man's environment; including planetary conditions, geographic location, climate and weather, soils and land forms. *Welby, 15.*

Trewartha, *Fundamentals of Physical Geography,* 2nd ed. (1968), $12.95

GEOLOGY

Geol. 11
CH

PHYSICAL GEOLOGY (4 s.h.). The nature and origin of minerals and rocks, volcanoes, earthquakes, earth's interior, mountains, soil, groundwater, landscapes and the geologic work of glaciers, streams and wind are covered in this course. The topics of continental drift and the relationship between geology and man's environment also are considered. *Sullivan, 20.*

Jackson, *Geology Today* (1973), $14.50
Committee on Geological Sciences, National Research Council-National Academy of Sciences, *The Earth and Human Affairs* (1972), $2.95
Zumberge, *Laboratory Manual for Physical Geology,* 4th ed. (1973), $6.95
Rock and mineral set, $8.35
New Bloomfield Quadrangle, Pennsylvania topographic map, 15 minute series (1952), $.95

Geol. 42
CH

HISTORICAL GEOLOGY (4 s.h.). An organized picture of the history of the earth and its physical features is presented, as well as a brief survey of the history of life on earth. Certain principles—such as organic evolution, fossilization, the origin of rocks and landforms, and the interpretation of geologic maps—are introduced and form the basis on which the facts of earth history may be understood

and related. Laboratory materials are furnished by Independent Study. *Wheeler, 30, prerequisite: Geology 11 or 41.*

Spencer, *Basic Concepts of Historical Geology* (1962), $11.95
McAlester, *The History of Life* (1968), $2.95
Lobeck, *A Physiographic Diagram of the U.S.*, $1.25
Lobeck, *Geologic Map of the U.S.*, $1.50
Raisz, *Landforms of the United States* (1957), $.75
Lab Fee, $10.00

GY 101 NCSU EARTH SCIENCE (3 s.h.). Introductory course in general geology; changes in the earth, and underlying physical and life processes. (Not to be taken after GY 120.) *Welby, 18.*

Part I
Foster, *Geology* (1971), $3.95
Gross, *Oceanography,* 2nd ed. (1971), $3.95
Miller, *Meteorology, 2nd ed.* (1971), $3.95

**Part II
Set A
Bloom, *Surface of the Earth* (1969), $2.95
Turner, *Applied Earth Science* (1969), $2.95

Set B
Mehlin, *Astronomy & Origin of the Earth* (1968), $1.95
McAlester, *The History of Life* (1968), $2.95

Set C
Clark, *Fossils, Paleontology, and Evolution* (1968), $1.95
Eicher, *Geologic Time* (1968), $2.95

Set D
Mehlin, *Astronomy & Origin of the Earth* (1968), $1.95
Bloom, *Surface of the Earth* (1969), $2.95

**You may choose which set from Part II to complete. If you prefer, you may wait until you receive your study guide before ordering the materials for Part II. Only one set will be required.

GERMANIC LANGUAGES

Germ. 1 CH ELEMENTARY GERMAN (3 s.h.). In German 1 and 2 the student will acquire some elementary communications skills and get a systematic introduction to the basic grammatical patterns of the German language. While reading and writing will get the major emphasis, tape recordings will make it possible to also practice listening and speaking. This use of all four basic skills enables the student to approach the new language from every possible angle and thus to lay the foundation for future reading or conversation courses. Cassettes are required, and student must have access to cassette tape player. *Carroll, 26.*

Feld, et. al, *Anfang und Fortschritt,* 2nd ed. (1973), $7.95
Laboratory Workbook for Anfang und Fortschritt (1973), $1.95
Ten cassette tapes, $7.50

Germ. 2 CH ELEMENTARY GERMAN (3 s.h.). A continuation of German 1 and an introduction to simple literary readings. *Carroll, 27, prerequisite: German 1 or equivalent.*

Feld, et. al, *Anfang und Fortschritt,* 2nd ed. (1973), $7.95
Laboratory Workbook for Anfang und Fortschritt (1973), $1.95
Rechtschaffen, *et al, Literatur fur den Deutschunterricht, Zweite Stufe* (1964), $2.50
Eight cassette tapes, $6.00

Germ. 3
CH

INTERMEDIATE GERMAN (3 s.h.). Designed to develop speed and accuracy in reading German and to acquaint the student with some of Germany's outstanding prose writers, German 3 entails, in addition to the reading, a thorough grammar review. *Carroll, 25, prerequisite: German 2 or equivalent.*

Roseler, *German in Review,* 3rd ed. (1961), $4.60
Hesse, *Knulp* (1932), $2.25
Fleissner, *Deutsches Literatur-Lesebuch,* 3rd ed. (1959), $3.20

Germ. 4
CH

INTERMEDIATE GERMAN (3 s.h.). German 4 includes work by Eichendorff, Hesse, and Mann, and introduces an easier work by Kastner for sight reading. *Carroll, 25, prerequisite: German 3 or equivalent.*

Eichendorff, Ed. Schwarz, *Aus dem Leben eines Taugenichts* (1969), $3.75
Mann, Ed. Kelly, *Tonio Kroger* (1959), $2.25
Hesse, Ed. Peebles, *Drei Erzahlungen* (1950), rent, $1.00 for 3 months
Kastner, *Emil und die Detektive,* Rev. ed. (1945), $4.65

Germ. 21
CH

GERMAN LITERATURE (3 s.h.). This introductory course in modern German literature (1870-1950) serves both to further reading aptitude and to acquaint the student with eminent authors of this period. *Carroll, 25, prerequisite: German 4 or equivalent.*

Feise and Steinhauer, *German Literature Since Goethe, Part Two: An Age of Crisis, 1870-1950* (1958), $6.95
Feise and Steinhauer, *General Vocabulary to German Literature Since Goethe,* $1.60

HISTORY

Hist. 11
CH

WESTERN CIVILIZATION FROM EARLIEST TIMES TO THE MID-SEVENTEENTH CENTURY (3 s.h.). A study of the political, economic, cultural, and religious institutions and ideas of the western world from their origin to early modern times. *Schnorrenberg, 9.*

Cantor, *Western Civilization: Its Genesis and Destiny,* Vol. I (1969), $13.25
Hollister, Ed., *Landmarks of the Western Heritage,* Vol. I: The Ancient Near East to 1789, 2nd ed. (1973), $7.95
Schaefer, Resnick and Netterville, Eds., *The Shaping of Western Civilization,* Vol. I, The Traditional World (1970), $10.95
Elton, Ed., *Renaissance and Reformation, 1300-1648* (1963), $4.25

HI 204
NCSU

WESTERN CIVILIZATION TO 1400 (3 s.h.). A survey of Western Civilization from earliest times to the end of the medieval era, treating the major civilizations which contributed to the development of Western Civilization until the end of the medieval period. *Nixon, 17.*

Brinton, *History of Civilization, Prehistory to 1715,* Vol. I, (1971), $12.95
Lerner, *Student's Guide to History of Civilization,* Vol. I (1968), $2.95

Hist. 12
CH

WESTERN CIVILIZATION FROM THE MID-SEVENTEENTH CENTURY TO THE PRESENT TIME (3 s.h.). The development and spread of western civilization since about 1650. A study of the ideas, institutions, and developments that have created the modern world. *Schnorrenberg, 10.*

Cantor, *Western Civilization: Its Genesis and Destiny,* Vol. II: 1300-1815 (1970), $7.95
Cantor, *Western Civilization: Its Genesis and Destiny,* Vol. III: 1815-Present (1970), $7.95
Schaefer, Resnick, and Netterville, Eds., *The Shaping of Western Civilization,* Vol. II: The Modern World (1970), $7.25
Schrier, *Modern European Civilization* (1963), $7.95

HI 205 NCSU

WESTERN CIVILIZATION SINCE 1400 (3 s.h.). An introductory survey of the development of Western Civilization during the modern period from the Renaissance to the present. *Nixon, 21.*

Brinton, *History of Civilization, Prehistory to 1715,* Vol. I, (1971), $12.95
Brinton, *History of Civilization, 1715 to Present,* Vol. II (1971), $12.95
Rice, *Student's Guide to History of Civilization,* Vol. II (1970), $2.95

Hist. 21 CH

AMERICAN HISTORY, 1607-1877 (3 s.h.). This course is a general survey of the history of the United States from the settlement of America to the emergence of the United States as an industrial nation. The emphasis throughout is on making relationships between important facts and drawing conclusions from them. *Williams, 16.*

Blum, *et al, The National Experience, A History of the United States to 1877, Part One,* 3rd ed. (1973), $7.50
Demos, *A Little Commonwealth: A Family History of Life in Plymouth Colony* (1970), $1.95
Franklin, *Autobiography* (1955), $.60
Grimsted, ed., *The Notions of the Americans, 1820-1860* (1970), $4.95
Lerner, *The Grimke Sisters of South Carolina: Pioneers for Women's Rights and Abolition* (1967), $3.95

Hist. 22 CH

AMERICAN HISTORY (3 s.h.). This course is a general survey of the history of the United States from the end of the Civil War to the present. *Williams, 25.*

Barck and Lefler, *A History of the United States Since 1865,* Vol. II (1968), $9.50

HI 243 NCSU

UNITED STATES 1845-1914 (3 s.h.). The coming of the Civil War; the war and the reconstruction of the nation; the rise of industrialism and the Populist and Progressive response; the emergence of the United States as a world power. *Beezley, 15.*

Cords, *Myth & the American Experience,* Vol. II (1973), $6.95
Hofstadter, *The American Republic,* Vol. II, 2nd ed. (1970), $12.95
Nichols, *The Stakes of Power, 1845-1877* (1961), $2.45

Hist. 31 CH

RUSSIA AND THE SOVIET UNION FROM 1861 TO THE PRESENT (3 s.h.). This course enables the student to obtain some insight into the political and cultural trends which underlie the development of Russian state and society and their positions in the modern world. *Brooks, 15.*

Riasanovsky, *A History of Russia,* 2nd ed. (1969), $11.95
Adams, Ed., *Imperial Russia after 1861* (1965), $2.95
Shub, *Lenin* (abridged edition), (1948), $.95
Daniels, *The Stalin Revolution* (1972), $2.95
Deutscher, *The Unfinished Revolution* (1967), $1.95

Hist. 41 CH

ANCIENT HISTORY (3 s.h.). Dealing with the history of the Orient, Greece, and Rome to the time of Constantine, this course pays particular attention to social and economic conditions, and cultural and religious developments. *McCoy, 24.*

Roebuck, *The World of Ancient Times* (1966), $5.95

HI 207 NCSU

THE ANCIENT WORLD TO 180 A.D. (3 s.h.). A study of the ancient cultures of the Middle East and Graeco-Roman civilization. Includes study of Egyptian, Minoan, Mycenean, Greek, and Roman societies and cultures. *Sack, 15.*

Bailkey, *Readings in Ancient History* (1969), $6.95
Jones, *Ancient Civilization* (1960), $12.95 (new), $9.00 (used)

Hist. 44 CH

ENGLISH HISTORY (3 s.h.). A survey of English history from the earliest times to 1714, this course includes the Anglo-Saxon period, the Norman conquest, the feudal period, the Tudor monarchy, the constitutional struggles of the seventeenth century, and the end of the Stuart monarchy. *Godfrey, 25.*

Smith, *A History of England,* 3rd ed. (1966), $10.95

Hist. 45 CH

ENGLISH HISTORY (3 s.h.). This course begins with 1715 and comes to the present. It deals with the Hanoverians, the American Revolution, the Napoleonic era, the Industrial Revolution, and the great social and economic changes of the nineteenth and twentieth centuries as England changed from a laissezfaire economy to a welfare state. *Godfrey, 25.*

Smith, *A History of England,* 3rd ed. (1966), $10.95
Trevelyan, *History of England,* Vol. III (1953), $1.45

Hist. 46 CH

LATIN AMERICAN HISTORY: COLONIAL AND REVOLUTIONARY PERIODS (3 s.h.). History 46 surveys the development of Latin America from its pre-Columbian Indian civilizations to the establishment of independent governments in most of the region during the first quarter of the nineteenth century. As well as the political institutions and organizations, the economic, social, and cultural progress is studied. *Seckinger, 24.*

Fagg, *Latin America: A General History* (1969), $11.95
Padden, *The Hummingbird and the Hawk* (1967), $1.95
Pike, Ed., *The Conflict Between Church and State in Latin America* (1964), $2.95
Whitaker, Ed., *Latin America and the Enlightenment* (1961), $1.75
Maps, $.40

Hist. 47 CH

LATIN AMERICAN HISTORY: NATIONAL PERIOD (3 s.h.). A survey of the development of civilization in Latin America from the establishment of its independence from European powers to the present, this course deals not only with the internal history of the Latin American nations, but also with their relations with one another and with the role of that region in the world. By exploring the major trends and movements in the political, cultural, social, and economic life of the area, the course enables the student to make meaningful interpretations of Latin America's past. *Seckinger, 24.*

Fagg, *Latin America: A General History* (1969), $10.95
Bierck, Ed., *Latin American Civilization: Readings and Essays* (1967), $4.95

HI 216 NCSU

LATIN AMERICA SINCE 1826 (3 s.h.). A survey of social, economic, political and intellectual life in the 19th and 20th centuries. Major attention is given to Mexico, Argentina, Brazil, Peru and Cuba. Topics include the social structure of the new nations; 19th century liberalism; the force of tradition; relations with Europe and the United States; the Monroe Doctrine and U. S. intervention; economic change; caudillo rule; 20th century upheavals; the Mexican Revolution; Peron's Argentina; Castro and Latin America. *Beezley, 14.*

Hanke, *History of Latin America,* Vol. II (1967), $5.20 (used)
Herring, *A History of Latin America,* 3rd ed. (1968), $10.95
Lockwood, *Castro's Cuba, Cuba's Fidel* (1969), $2.95

Hist. 48 CH

MODERN EUROPEAN HISTORY, 1500-1815 (3 s.h.). History 48 comprises an introductory survey of the history of Europe from about 1450 to 1815. *Godfrey, 24.*

Lee, *Base Map for European History* (1937), $.20
Clough, *et al., Early Modern Times,* Vol. II (1964), $6.50
Palmer, *Historical Atlas of the World,* $1.00
Rowen, *From Absolutism to Revolution, 1648-1848* (1963), $4.50
Elton, Ed., *Renaissance and Reformation: 1300-1648* (1968), $4.25

Hist. 49 CH

MODERN EUROPEAN HISTORY SINCE 1815 (3 s.h.). History 49 is an introductory course in the history of Europe since 1815. *Godfrey, 24.*

Clough, *et al., A History of the Western World: Modern Times,* Vol. III, 2nd ed., (1969), $6.50
Palmer, *Historical Atlas of the World,* $1.00
Weber, Ed., *The Western Tradition: From the Enlightenment to the Atomic Age,* 2nd ed. (1965), $4.95

Hist. 143 CH THE DIPLOMATIC HISTORY OF THE UNITED STATES, 1776-1914 (3 s.h.). The course traces the development of American foreign relations from the Revolution to the outbreak of the First World War with an eye to understanding the role of the United States in its world setting. The student should gain an appreciation of the forces determining American diplomacy, the complex nature of decision-making, and the shifting responsibilities of the American government. *Kilgroe, 21, prerequisite: at least one semester of a college-level survey course in American history.*

DeConde, *A History of American Foreign Policy* (1971), $5.95
Williams, *The Shaping of American Diplomacy,* Vol. I: 1750-1914 (1970), $6.25
LaFeber, *John Quincy Adams and American Continental Empire* (1965), $2.25
Beale, *Theodore Roosevelt and the Rise of America to Power* (1956), $1.50

Hist. 144 CH DIPLOMATIC HISTORY OF THE UNITED STATES, 1914 TO THE PRESENT (3 s.h.). The course traces the development of American foreign relations from 1914 to the present with an eye to understanding the role of the United States in its world setting. It is hoped that the course will provide students with an understanding of the forces shaping twentieth-century diplomacy, the complex nature of decision-making, and the historical background of present-day problems. *Kilgroe, 19, prerequisite: a college level survey course in American history; it is also preferable that the student have completed History 143.*
DeConde, *A History of American Foreign Policy* (1971), $5.95
Williams, *The Shaping of American Diplomacy,* Vol. II: 1914-1968 (1970), $6.25
Link, *Wilson the Diplomat* (1957), $2.25
LaFeber, *America, Russia, and the Cold War, 1945-1966* (1967), $3.95

Hist. 161 CH NORTH CAROLINA, 1548-1835 (3 s.h.). This course surveys the political, social, economic, and cultural development of North Carolina from the first settlement until 1835. *Martin, 25.*
Lefler and Newsome, *North Carolina: The History of a Southern State* (1973), $10.00
Lefler, *North Carolina History Told by Contemporaries,* 4th ed. (1965), $8.50

Hist. 162 CH NORTH CAROLINA, 1835-1973 (3 s.h.). History 162 consists of a survey of political, economic, social and cultural development in North Carolina since 1835. *Martin, 25.*
Same texts as for History 161

ITALIAN

Ital. 1 CH ELEMENTARY ITALIAN (3 s.h.). This course aims at a thorough knowledge of the basic grammatical patterns so that the student may not only acquire a good level of proficiency in Italian conversation, but also grasp the general principles governing the structure of the language. Student must have access to a tape recorder: some assignments must be submitted on tape. *Brumfield, 24.*

Hall and Bartoli, *Basic Conversational Italian* (1963), $12.95
Cassette tapes: $2.00

Ital. 2 CH ELEMENTARY ITALIAN (3 s.h.). Reading and writing skills are developed and the student is guided toward further mastery of the fundamentals of the Italian language. *Brumfield, 24, prerequisite: Italian 1 or equivalent.*

Hall and Bartoli, *Basic Conversational Italian* (1963), $12.95
Speroni and Golino, *Panorama Italiano* (1960), $5.20
Cassette tapes: $1.00

Ital. 3 CH INTERMEDIATE ITALIAN (3 s.h.). The Italian language is studied with emphasis on reading and writing. *Brumfield, 24, prerequisite: Italian 2 or equivalent.*

Young and Cantarella, *Corso d'Italiano* (1942), $6.95
Marraro, *Scrittori Italiani Moderni* (1960), $3.50

Ital. 4
CH

INTERMEDIATE ITALIAN (3 s.h.). A thorough knowledge of the Italian language is gained through reading a varied spectrum of Italian contemporary prose and writing in Italian on a variety of given topics. *Brumfield, 24, prerequisite: Italian 3 or equivalent.*

Young and Cantarella, *Corso d'Italiano* (1942), $6.95
Olken and Musa, *Strada Facendo* (1966), $7.50
Olken, Ed., *Racconti del Novencento: Forti e deboli* (1966), $3.25

LATIN

Lat. 1
CH

ELEMENTARY LATIN (3 s.h.). The principles of Latin necessary for the translation of Latin into English are introduced. A pronunciation record is required. *Constantinople, 24.*

Ullman, Henderson, and Henry, *Latin for Americans, First Book* (1962), $8.52
Recording, (33 1/3 r.p.m.) $2.50

Lat. 2
CH

ELEMENTARY LATIN (3 s.h.). Development of the ability to read and translate Latin prose is the primary aim of this course. Two books of Caesar's *Gallic Wars* will be read. *Constantinople, 24, prerequisite: Latin 1 or equivalent.*

Ullman, Henderson, and Henry, *Latin for Americans, Second Book* (1962), $8.80

Lat. 3
CH

INTERMEDIATE LATIN (3 s.h.). In translating Cicero's *First Oration against Cataline and In Defense of Archias,* attention is given to vocabulary, grammatical forms and syntax, and to the basic stylistic devices of Cicero's prose. *Constantinople, 24, prerequisite: two years of high school Latin, or two semesters of college Latin.*

Ullman, and Suskin, Eds., *Latin for Americans, Third Book* (1965), $6.04
Bennett, *New Latin Grammar* (1918), $4.04
Cowell, *Cicero and the Roman Republic,* $1.95

Lat. 4
CH

INTERMEDIATE LATIN (3 s.h.). This course has a dual purpose: to polish the student's ability to translate Latin prose and to introduce him to Latin poetry. The work includes careful translation of selected lines and verses, an introduction to the scansion of Latin heroic poetry and a thorough review of Latin forms and syntax, an analysis of certain creative techniques encountered in Ovid and Livy, and a thoughtful, comprehensive review of Laistner's *The Greater Roman Historians. Constantinople, 24, prerequisite: Latin 3 or equivalent.*

Gould and Whiteley, *Livy, Book I* (1952), $2.50
Gould and Whiteley, *Ovid: Metamorphoses,* Book VIII (1940), $2.00
Bennett, *New Latin Grammar* (1918), $4.04
Laistner, *The Greater Roman Historians* (1947), $2.25
De Selincourt, *Livy: The Early History of Rome* (1960), $2.45

Lat. 21
CH

SELECTIONS FROM LATIN POETRY (3 s.h.). The primary purpose of the course is to perfect the student's ability to translate and scan Latin epic poetry. A strong secondary emphasis is placed on literary appreciation. *Constantinople, 24, prerequisite: four years of high school Latin, or two years of college Latin.*

Gould & Whiteley, *P. Vergilius Maro, Aeneid, Book Eight* (1965), $1.65
Gould & Whiteley, *P. Vergilius Maro, Aeneid, Book 12* (1962), $1.50
Humphries, *The Aeneid of Virgil* (1951), $1.65
Mackail, *Virgil and His Meaning to the World of Today* (1963), $3.50
Bennett, *New Latin Grammar* (1918), $4.04

Lat. 22
CH

LATIN POETRY (3 s.h.). Emphasis is put on content, literary form and appreciation and verification while reading about two-thirds of the poems of Catullus. *Constantinople, 24, prerequisite: four years of high school Latin or two years of college Latin.*

Merrill, Ed., *Catullus* (1951), $4.00
Bennett, *New Latin Grammar* (1918), $4.04
Wheeler, *Catullus and the Traditions of Ancient Poetry* (1964) $1.95
Upon request: *Lewis, An Elementary Latin Dictionary* (1918), $12.00

MATHEMATICS

Math. A CH PLANE GEOMETRY (non-credit). A course designed to enable the student to acquire a thorough knowledge of the facts of plane geometry needed for continued work in mathematics and allied subjects. This course will be accepted by the University to remove a deficiency in plane geometry for admission. The material covered, if taken in high school, would require one full school year, being equivalent to one unit. *Kinch, 24. Fee,* $60.00

Moise and Downs, *Geometry* (1967), $8.88

Math. R CH CONTEMPORARY ALGEBRA (non-credit). A contemporary approach to the algebra of real and complex numbers, this is the equivalent of what was formerly called Intermediate Algebra. The manner in which the subject is treated is in line with the new approach now being introduced into the schools at both the elementary and secondary levels. *Kinch, 30. Fee,* $60.00

Heimer, Kocher, Lottes, *A Program in Contemporary Algebra* (1972), Series of five books, $19.80

Math. 15 CH ELEMENTARY FUNCTIONS AND COORDINATE GEOMETRY (3 s.h.). Real and complex numbers, inequalities, functions and their graphs, operations on functions, polynomials, rational and algebraic functions, exponential and logarithmic functions, trigonometric functions, and elementary analytic geometry are covered. *Kinch, 24.*

Fisher and Zeibur, *Integrated Algebra and Trigonometry with Analytic Geometry,* 3rd ed. (1972), $12.25

MA 111 NCSU ALGEBRA AND TRIGONOMETRY (4 s.h.). Sets and logic, the real number system, polynomials, algebraic fractions, exponents and radicals, linear and quadratic equations, inequalities, functions and relations, logarithms, plane trigonometry. *Savage, 20.*

Robison, *Modern Algebra & Trigonometry,* 2nd ed. (1973), $10.95

Math. 31 CH CALCULUS WITH ANALYTIC GEOMETRY (3 s.h.). An integrated treatment of analytic geometry and the differential and integral calculus of functions of one variable. Differential equations. NOTE: It is suggested that students planning to take Math 32 do both Math 31 and 32 by correspondence or do both courses on campus. *Graves, 20, prerequisite: Mathematics 15.*

Merriell, *Calculus, A Programmed Text, Volume I, Techniques and Applications* (1974), $7.95

MA 102 NCSU ANALYTIC GEOMETRY AND CALCULUS 1 (4 s.h.). The first of three semesters of a unified course in analytic geometry and calculus. Topics include rectangular coordinates in the plane, graphs and equations of lines, algebraic curves, including the conic sections and others examined by general discussion methods. Also introduced are functions, limits, continuity differentiation of algebraic functions, with applications of derivatives and differentials. *Savage, 31, prerequisite: MA 111 or equivalent completed in high school. Credit in both MA 102 and MA 112 is not allowed for N. C. State students.*

Purcell, *Calculus with Analytic Geometry,* 2nd ed. (1972), $15.50

Math. 32 CH CALCULUS WITH ANALYTIC GEOMETRY (3 s.h.). See description for Mathematics 31. *Graves, 24, prerequisite: Mathematics 31.*

Merriell, *Calculus, A Programmed Text, Volume II, Theory* (1974), $5.50

NOTE: STUDENTS WHO TOOK MATHEMATICS 31 USING THE LANG TEXTBOOK SHOULD ENROLL IN MATHEMATICS 32 USING THE FOLLOWING TEXTBOOK:

Lang, *A First Course in Calculus,* 3rd ed. (1968), $11.95

MA 201 NCSU ANALYTIC GEOMETRY AND CALCULUS II (4 s.h.). The second of three semesters of a unified course in analytic geometry and calculus. Applications of the definite integral. Other topics include: methods of integration, polar coordinates, and infinite series. *Savage, 20, prerequisite: MA 102.*

Purcell, *Calculus with Analytic Geometry* 2nd ed. (1972), $15.50

MA 202 NCSU ANALYTIC GEOMETRY AND CALCULUS III (4 s.h.). The third of three semesters of a unified course in analytic geometry and calculus. Brief introduction to determinants and matrices, vector functions, analytic geometry of three dimensions and partial differentiation, multiple integration, applications. Line integral and Green's Theorem. *Savage, 30, prerequisite: MA 201.*
Thomas, *Calculus & Analytic Geometry* (1968), $15.95

Math. 132 CH LINEAR ALGEBRA (3 s.h.). Introduction to the theory of finite dimensional vector spaces, linear transformations, and matrices. *Bivens, 24, prerequisite: Mathematics 32.*

Beaumont, *Linear Algebra* (1965), $5.75

MA 122 NCSU MATHEMATICS OF FINANCE AND ELEMENTARY STATISTICS (4 s.h.). Single and compound interest, annuities and their application to amortization and sinking fund problems, installment buying, calculation of premiums of life annuities and life insurance, elementary statistics. **Students in this course will be required to return graded assignments to the Independent Study office before taking the final examination.** *Lewis, 22, prerequisite: MA 111 or its equivalent in high school, or MA 114, or MA 115 or MA 116.*

Hart, *Mathematics of Investment,* 4th ed. (1958), $8.25 (used)
Strobel, *Introduction to Elementary Statistics* (1955), $2.00

For the final examination, students will be required to have a handbook of tables suitable for the mathematics of finance. Kent and Kent, *Compound Interest and Annuity Tables* (1926), $2.95, is available from Independent Study.

MECHANICAL AND AEROSPACE ENGINEERING

MAE 411 NCSU MACHINE COMPONENT DESIGN (3 s.h.). Applying engineering and materials sciences to the analysis and design of machine components including fasteners, springs, bearings, gears, shafts, clutches, brakes, couplings, etc. **Note: This course was in preparation at the time the catalog went to press; please inquire before enrolling.** *Garcia, 14, prerequisites: MAE 315, 316.*

Shigley, *Mechanical Engineering Design,* 2nd ed. (1972), $18.00

MUSIC

Mus. 14 CH HARMONY (3 s.h.). Music 14 deals with major and minor scales, their primary triads in root positions as well as in inversions, accented and unaccented passing notes, auxiliary notes, six-four and dominant seventh chords, diminished and augmented triads. *Igoe, 24, prerequisite: Music 21 or equivalent.*

Kitson, *Elementary Harmony,* Part I (1969), $3.00
Upon request: Staff paper, $.45

Mus. 15 CH HARMONY (3 s.h.). The secondary or diatonic chords of the seventh and their particular uses are studied. Changing notes, anticipations, and chromatic passing notes are added to the vocabulary, and elementary modulation is brought in to enrich the scope of melodic expression. Suspensions with their rich dissonances add to the general interest. *Igoe, 25, prerequisite: Music 14 or equivalent.*

Kitson, *Elementary Harmony,* Part 1 (1969), $3.00
Kitson, *Elementary Harmony,* Part II (1963), $3.00
Upon request: Staff paper, $.45

Mus. 21 CH FUNDAMENTALS OF MUSIC (3 s.h.). This course is directed primarily at the student with little or no formal background in music. Musical notation, the organization of both major and minor scales, key and time signatures, rhythms, melody-writing, simple keyboard chord progressions, sight-singing, and lyrics are studied. *Igoe, 15.*

A musical recorder (instrument), $5.00
3 or 4 blank cassette tapes
Access to a tape recorder for both recording and playing back
Access to a keyboard instrument, preferably a piano
Staff paper, $.45

(An examination fee of $5.00 will be charged at UNC for use of the facilities and equipment in the Music Department. Other schools may charge a different fee. The student assumes responsibility for fee and arrangements for the examination. Examination arrangements should be made well in advance of the date the exam is to be taken.)

Mus. 41 CH MUSIC APPRECIATION (3 s.h.). An introduction to music through an exploration of elements, styles, and forms, with a consideration of selected masterworks presented on phonographic recordings. This course seeks to lay a foundation for the comprehension and enjoyment of music of any period or genre. *Fogle, 20.*

Machlis, *The Enjoyment of Music,* 3rd ed. (1970), $8.95
Recordings for *The Enjoyment of Music and The Norton Scores* (Norton), $14.95

PHILOSOPHY

Phil. 20 CH INTRODUCTION TO PHILOSOPHY (3 s.h.). This course covers three philosophical problems in detail: the problem of knowledge and skepticism, the problem of freedom and determinism, and the mind-body problem. *Kussack, 15.*

Lehrer, *Philosophical Problems and Arguments: An Introduction* (1968), $7.95

PHI 205 NCSU PROBLEMS AND TYPES OF PHILOSPHY (3 s.h.). An introduction to the basic philosophical questions in regard to the nature and validity of knowledge, the nature of mind, human freedom, aesthetics, ethics, religion and the social order; the major types of philosophy; materialism, idealism, pragmatism, existentialism, analytic philosophy. *Fitzgerald, 14.*

Titus, *Living Issues in Philosophy,* 5th ed. (1970), $6.70 (used)
Titus, *Range of Philosophy,* 2nd ed. (1970), $4.00 (used)

Phil. 21 CH INTRODUCTORY SYMBOLIC LOGIC (3 s.h.). This course treats the standard notations, methods, and principles of symbolic logic as used to determine the validity and invalidity of arguments. Only the simplest formal systems of symbolic logic are covered: truth-function theory and one-variable quantification theory. *Goble, 18.*

Resnik, *Elementary Logic* (1970), $9.95

POLITICAL SCIENCE

Citz. 1 CH CITIZENSHIP (non-credit). Offered in cooperation with the United States Immigration and Naturalization Service to persons in the state who wish to become citizens of the United States, this course is designed especially for those who cannot attend citizenship classes. Several levels of the course are available, the number of assignments for each varying. *Cahill, Fee $8.00.*

Pol. Sci. 41 CH INTRODUCTION TO GOVERNMENT IN THE UNITED STATES (3 s.h.). An introduction to American government, primarily on the national level, this course is intended to provide a "realistic" view of our political system as it operates in contemporary society. *Millstone, 17.*

Irish and Protho, *The Politics of American Democracy,* 4th ed. (1968), $8.95

PS 201
NCSU

THE AMERICAN GOVERNMENTAL SYSTEM (3 s.h.). A descriptive analysis of the institutions of national government: Congress, the Presidency, and the Supreme Court. An analysis of the framework within which these institutions operate: the constitution and the federal system. An examination of the characteristics of the society which influence the patterns of national politics: the nature of the electorate political parties and pressure groups. A brief examination of policies which have resulted from the interaction of all these factors. *Holtzman, 19.*

Irish, *Politics of American Democracy,* 4th ed. (1968), $7.50 (used)
Lipsitz, *American Government* (1967), $4.00 (used)

Pol. Sci. 51
CH

STATE GOVERNMENT IN THE UNITED STATES (3 s.h.). This is a study of the organization and operations of state governments and their relationships with their local governments and the U.S. government. *Light, 24.*

Beyle, *Politics and Policy in North Carolina* (1975),
Elazar, *American Federalism: A View from the States,* 2nd ed. (1972), $5.00
Palmer, *State Politics in the United States* (1972), $3.95
Sanford, *Storm Over the States* (1967), $2.45

POULTRY SCIENCE

The following course can be taken either as a university credit course or practical course. Should university credit be desired, an examination will be given at the end of the course. As a practical course, no examination will be required, and a certificate will be issued upon completion.

PO 200
NCSU

POULTRY PRODUCTION (3 s.h.). This course is the lecture portion of PO 201 and does not include the laboratory aspects. It covers the fundamental principles of broiler, market egg, hatching egg and turkey production. Identification of chicken and turkey classes, breeds and varieties. Breeding, incubation, raising, housing, feeding, disease and parasite control. Preparation for marketing of chickens, eggs and turkeys. *Parkhurst, 14.*

Card, *Poultry Production,* 11th ed. (1972), $11.00

PSYCHOLOGY

Psych. 10
CH

GENERAL PSYCHOLOGY (3 s.h.). This survey course gives an up-to-date picture of where psychology stands as a science. Covered in the course are the nature of psychological science, motivation and emotion, developmental psychology, sensation and perception, learning and memory, individual differences, personality psychology, clinical psychology, and social psychology. *Duran, 19.*

Hilgard and Atkinson, *Introduction to Psychology,* 5th ed. (1971), $12.95
Atkinson & Atkinson, *Study Guide* (1971), $4.95
Scientific American reprints, set $4.80

RECREATION ADMINISTRATION

R.A. 73
CH

COMMUNITY RECREATION (3 s.h.). This course is a study of the concepts of leisure and recreation, the place of recreation in society, and its contribution to meaningful living. The primary focus is on the development of organized recreation in the United States as a result of the efforts of the Recreation Movement. *Meyer, 15.*

Yukic, *Fundamentals of Recreation* (1970), $5.95
Meyer, *Community Recreation: A Guide to its Organization* (1969), $10.95
Madow, Ed., *Recreation in America* (1965), $5.25

RELIGION

Rel. 52
CH

INTRODUCTION TO THE NEW TESTAMENT. (3 s.h.). A basic guide to the history and literature of the New Testament and to the central figures and ideas of

earliest Christianity. **Note: This course was in preparation at the time the catalog went to press; please inquire before enrolling.** *Schutz.*

Spivey and Smith, *Anatomy of the New Testament,* 2nd ed. (1974), $

Upon request: May and Metzger, *The Oxford Annotated Bible, RSV,* $6.95

REL 321 NCSU RELIGION IN AMERICAN LIFE (3 s.h.). This is a study of representative men, movements, and thought in the major religions within the American context. The course traces the historical development of these religious groups and examines the role of religion in the development of American society and culture. *Fitzgerald, 15.*

Hudson, *Religion in America,* 2nd ed. (1973), $5.95
Needleman, et al, Eds., *Religion for a New Generation* (1975), $6.25

RUSSIAN

Russ. 1 CH ELEMENTARY RUSSIAN (3 s.h.). This is an introductory course designed to lay the foundation of grammar and to convey basic reading and pronunciation of skills. Records are required. *Mihailovich, 25.*

Fayer, Pressman and Pressman, *Simplified Russian Grammar, 2nd ed.* (1963), $7.50
Allen III, *Workbook for Simplified Russian Grammar,* 2nd ed. (1965), $2.75
Records: (33 1/3 r.p.m.), $4.50

Russ. 2 CH ELEMENTARY RUSSIAN (3 s.h.). The student will build on the foundations laid in Russian 1 in the language, and progress further toward mastery of the fundamentals of Russian phonology and grammar. Records are required. *Mihailovich, 25, prerequisite: Russian 1 or equivalent.*

Texts same as for Russian 1
Records: (33 1/3 r.p.m.), $6.00

Russ. 3 CH INTERMEDIATE RUSSIAN (3 s.h.). The objective of this course is the completion of the basic Russian grammar. Extensive exercises are designed to consolidate the knowledge acquired in the first two courses, especially of the more difficult grammar. *Mihailovich, 25, prerequisite: Russian 2 or equivalent.*

Stilman and Harkins, *Introductory Russian Grammar* (1964), $7.75

Russ. 4 CH INTERMEDIATE RUSSIAN (3 s.h.). The Russian grammar is thoroughly reviewed. At the same time, the student is exposed to short readings in Russian literature. A separate textbook and a record provide for basic and useful conversations. *Mihailovich, 25, prerequisite: Russian 3 or equivalent.*

Zawacki and Folejewski, *Intermediate Russian* (1962), $5.95
Ivanov, *The Saga of the Sergeant* (1966), $1.30
Maltzoff, *Russian Conversations for Beginners* (1959), $1.95
Record, *Russian Conversations* (33 1/3 r.p.m), $4.98

SOCIOLOGY

Soc. 51 CH INTRODUCTION TO SOCIOLOGY (3 s.h.). The structure and function of contemporary societies and social relationships are viewed. A study is made of the way societies are formed, how they achieve their organization and unity, and the way they change. *Oliver, 24.*

Chinoy, *Society: An Introduction to Sociology* (1967), $10.50
Selected Articles from the Bobbs-Merrill Reprint Series in the Social Sciences, $7.35

SOC 202
NCSU

PRINCIPLES OF SOCIOLOGY (3 s.h.). Introduction to the scientific study of man's behavior in relation to other men, the general laws affecting the organization of such relationships and the effects of social life on human personality and behavior. *Brisson, 15.*

Rose, Sociology, *The Study of Human Relations,* 3rd ed. (1969), $10.50
Lasswell, *Life in Society,* rev. (1970), $7.95

Soc. 53
CH

BLACK-WHITE RELATIONS IN THE UNITED STATES (3 s.h.). Designed (1) to introduce the student to minority relations as a field of study, (2) to assist in providing a perspective in which to view contemporary black-white relations, and (3) to challenge the student to rely upon disciplined and scientific inquiry in this subject, this course places major emphasis upon the power relationships which exist between a large dominant group and a smaller minority group. **Note: This course was being revised as this catalog went to press. If you are interested in enrolling, please write for the final book list.** *Oliver, 25.*

Yetman and Steele, *Majority and Minority: The Dynamics of Racial and Ethnic Relations,* 2nd ed. (1975)
Meier and Rudwick, *From Plantation to Ghetto,* Rev. ed. (1970)
Killian, *The Impossible Revolution, Phase 2: Black Power and the American Dream* (1975)
A collection of reprints, price $5 to $7

Soc. 54
CH

POPULATION PROBLEMS (3). An examination of the major social and economic problems related to population growth and distribution in developed and less developed countries, and the solutions being proposed for these problems. *Oliver, 15.*

Breese, *Urbanization in Newly Developing Countries* (1966), $3.15
Callahan, *The American Population Debate* (1971), $2.50
Hartley, *Population: Quantity vs. Quality* (1972), $4.95
Population and the American Future. The Report of the Commission on Population Growth and the American Future (1972), $1.50
Population Reference Bureau. "Man's Population Predicament," *Population Bulletin* 26:2 (April, 1971), $.50
Population Reference Bureau. "The Brain Drain: Fact or Fiction?" *Population Bulletin* 25:3 (June, 1969), $.50
Scientific American. *Cities.* (1965), $2.95

Soc. 62
CH

FAMILY AND SOCIETY (3). The family is studied as a social institution which has economic and political ties and overtones. A study is made of the similarities and differences which are found in various societal contexts. *Oliver, 24.*

Leslie, *The Family in Social Context,* 2nd ed. (1973), $9.50
Norbeck, *Changing Japan* (1965), $2.75
Liebow, *Talley's Corner* (1967), $2.75
Komarovsky, *Blue Collar Marriage* (1967), $2.45

SOC 304
NCSU

CONTEMPORARY FAMILY LIFE (3 s.h.). The social organization of the family with special attention to socialization, marital choice, kinship relations, and the social changes affecting family structure and functions are considered. *Uzzell, 14.*

Bell, *Marriage & Family Interaction,* 3rd ed. (1971), $8.60 (used), $12.50 (new)
Sussman, *Sourcebook in Marriage & the Family,* 3rd ed. (1968), $5.00 (used), $6.95 (new)

SOC 301
NCSU

HUMAN BEHAVIOR (3 s.h.). A study of the effects of social interaction upon individual behavior and personality; collective attitudes and behavior as products of group experience; analysis of fashions and fads, crowds, mobs, publics, social movements. *Sawhney, 19.*

Backman, *Problems in Social Psychology* (1966), $6.00 (used)
Secord, *Social Psychology* (1964), $12.50 (new) $9.00 (used),

SOC 306 NCSU

CRIMINOLOGY (3 s.h.). The study of causation, treatment, prevention and control of criminality and juvenile delinquency. Special emphasis is placed on socio-cultural theories of causation and on the examination of court and correctional systems of adults and juveniles. *Suval, 16.*

Gibbons, *Society, Crime and Criminal Careers* (1968), $8.20 (used)
Rushing, *Deviant Behavior & Social Process* (1969), $6.95

SOC 413 G

EXPERIMENTAL COURSE: CORRECTIONS AND PENOLOGY (3 s.h.). Major sociological issues concerning the process of sentencing, incarceration and rehabilitation of juvenile and adult criminal offenders. Current correctional procedures and alternatives. **Note: This course was in preparation at the time the catalog went to press; please inquire before enrolling.** *Humphrey, 14.*

Leinwand, *Prisons* (1972), $.95
Fox, *Introduction to Corrections* (1972), $11.95
Eldefonso, *Issues in Corrections* (1974), $5.95

SOC 402 NCSU

URBAN SOCIOLOGY (3 s.h.). A study of the factors in the growth of cities; the sources and consequences of such growth. A sociological approach to understanding various types of urban configurations both in terms of their present status and the prevalent patterns of change in them. *Davis, 15, prerequisite: SOC 202 or permission of instructor.*

Baali, *Urban Sociology—Contemporary Readings* (1970), $6.95
Boskoff, *Sociology of Urban Regions,* 2nd ed. (1970), $8.20 (used) $10.95 (new)

SOC 425 NCSU

JUVENILE DELINQUENCY (3 s.h.). The epidemiology of juvenile delinquency is explored. Descriptive typologies are compared. Theories of causation are developed with emphasis on social institutions, peer groups and socialization processes. Procedures for enforcement, adjudication and correction of young offenders are investigated. Strategies for prevention of delinquency are examined. Opportunities for observation and participation in agency operations are included. *Suval, 16, prerequisite: SOC 306 or six hours social science.*

Giallombardo, *Juvenile Delinquency* (1966), $6.20 (used)
Gibbons, *Delinquent Behavior* (1970), $7.50 (used)
Gold, *Delinquent Behavior in an American City* (1970), $3.95
Winslow, *Juvenile Delinquency in Free Society* (1968), $5.95

SPANISH

Span. 3 CH

INTERMEDIATE SPANISH (3 s.h.). Stress is placed on the reading of Spanish of moderate difficulty. The translation of simple sentences into Spanish provides review of grammatical constructions. *Sharpe, 24, prerequisite: either two years of high school or one year of college Spanish.*

Gil, *Espanol contemporaneo* (1972), $3.80
Mihura, *Mi adorado Juan* (1964), $3.95
Iriarte, *Juego de ninos* (1965), $4.50

Span. 4 CH

INTERMEDIATE SPANISH (3 s.h.). The purpose of this course is basically to improve the student's reading knowledge of Spanish. Three plays and three novelettes, all from the 20th century, have been selected to provide intellectual pleasure and stimulation to the reader as well as information about Spanish American life and culture. This is not a grammar course. *Sharpe, 24, prerequisite: Spanish 3 or equivalent.*

Castillo and Castillo, *3 novelas cortas — 3 piezas teatrales* (1970), $6.50
Castillo and Bond, *University of Chicago Spanish Dictionary,* 2nd ed. (1972), $1.50

Span. 22
CH

MODERN SPANISH LITERATURE (3 s.h.). This course surveys the history of Spanish literature since the classical period, with special stress on the twentieth century. Extensive readings in Spanish from authors of this century are supplemented by background reading in English. *Sharpe, 24, prerequisite: Spanish 3-4 or 14-15, or equivalent.*

Patt and Nozick, *The Generation of 1898 and after* (1973), $6.50
Adams, *The Heritage of Spain* (1959), $7.80
Castillo and Bond, *University of Chicago Spanish Dictionary,* 2nd ed. (1972), $1.50

STATISTICS

Stat. 361
NCSU

INTRODUCTION TO STATISTICS FOR ENGINEERS I (3 s.h.). Survey of elementary statistical techniques useful to engineers and physical scientists. Includes introduction to probability, probability distributions, reliability of sample averages, reliability of differences between sample averages, tests of significance, the method of least squares for linear relationships between two variables and quality control. *Grandage, 8, prerequisite: college algebra.*

Bryant, *Statistical Analysis,* 2nd ed. (1966), $10.50

SPECIAL INTEREST COURSES (NON-CREDIT)

EIT
NCSU

ENGINEER-IN-TRAINING EXAM REFRESHER (non-credit). A review of engineering fundamentals consisting of solved sample problems and assignments designed to assist the practicing engineer in preparing for the Engineer-in-Training Exam (Exam 1). Topics covered include mathematics, physics, chemistry, hydraulics, kinetics, kinematics, statics, strength-of-materials, electricity, engineering economy, thermodynamics and others. *Stephenson, 11, Fee $12.00.*
Faires, *E. I. T. Review* (1961), $14.95

Note: An additional source of review of basic engineering principles will be offered on the UNC-TV network beginning in January, 1976. Entitled "Fundamentals of Engineering Review," this series consists of 20 lessons scheduled over a 10-week period. A book of problems and solutions is available for use with the series.

Inquiries should be directed to Industrial Extension Service, 133 Daniels Hall, North Carolina State University, Raleigh, Telephone: (919) 737-2356.

RE
NCSU

PRINCIPLES AND PRACTICES OF REAL ESTATE (non-credit). The course will cover the fundamentals of real estate. Topics include brokerage, appraising, management, finance, real property law, development, planning, etc. The course was approved in October, 1972 by the North Carolina Real Estate Licensing Board. *Dartt, 15, Fee $60.00.*

Ring, *Real Estate, Principles and Practices,* 7th ed. (1972), $13.95
Ring, *Questions and Problems In Real Estate,* 3rd ed. (1972), $5.95
Webster, *N.C. Real Estate for Brokers and Salesmen* (1974), $9.95

GENERAL INFORMATION

TO USERS OF THIS CATALOG

As participants in independent study, you become part of both a rich educational tradition and a bold new direction for learning. Since the late 1800's, when the demand for a winter continuation of the Chautauqua Institution's summer activities inspired the correspondence course, countless students have benefited from programs free from the constraints of classroom instruction.

In recent years, as the written word has been supplemented by such forms as records, cassette tapes, laboratory kits and television, and as programs have been designed with an increasing degree of flexibility, the traditional designation of "correspondence instructon" has come to be replaced by the more encompassing term "independent study." With this catalog, the University of North Carolina system embraces the new term as an indication of the broadened scope of our offerings and as a symbol of our plans for the future.

While independent study programs encourage a large measure of individual responsibility by students and allow them to work in essentially whatever manner, time and place they choose, it is not the intention of these programs to leave students entirely on their own. On the contrary, the independent student is supported by the resources of the university to the same extent as the student who works on campus. Independent study is an important means by which the university extends its contribution to the larger community; it is with this role in mind that we have chosen to call ourselves Independent Study by Extension.

The learning resources which we seek to make available to the independent student are not limited to any one campus of the University of North Carolina system. With the reorganization of higher education in North Carolina into a consolidated university of sixteen institutions, new areas of cooperation have emerged. One has been the creation of a statewide program of independent study, envisioned as a means of using our resources in the most effective and appropriate ways. This catalog, and the course offerings it contains, represents the joint efforts of five member institutions of the University of North Carolina system: Appalachian State University, East Carolina University, North Carolina State University, the University of North Carolina at Chapel Hill, and the University of North Carolina at Greensboro.

We hope that the material in this catalog will help you find ways to satisfy your educational needs and interests, and that you will consider Independent Study by Extension a continuing source of assistance in your learning activities.

ELIGIBILITY

Admission to independent study does not constitute official admission to a degree program at any institution. Interested students should contact the admissions office of the campus where they wish to earn a degree for information. The courses listed may be taken for credit or non-credit by anyone who is prepared to study them with profit. **The credit courses can be used toward a degree when appropriate to the student's own specific degree requirements. Students are responsible for making sure that courses fit their degree requirements.**

Students currently enrolled in a degree program are requested to read the section on taking courses while attending classes on campus before registering for a correspondence course.

Admission to the University of North Carolina is granted without respect to race, color, sex, national origin, or handicap.

ENROLLMENT

You may enroll in a course at any time during the year. Application must be made in writing on the forms provided in this catalog and mailed with a check or money order to Independent Study by Extension, University of North Carolina Extension Division, 121 Abernethy Hall, Chapel Hill, N.C. 27514. (Make checks or money orders payable to UNC Independent Study.) You should allow two weeks for delivery of your materials.

If you like, you may come directly to our offices (115 Abernethy Hall, UNC-CH campus) to enroll.

When you enroll you will receive a course study guide. In addition, you will need the textbooks and other materials listed after the course description in this catalog. These may be purchased from our bookroom. Specific instructions concerning your assignments and procedures will be included in the study guide; however, you should feel free to write your instructor or this office if you have questions. Please do not hesitate to call on us. As an independent study student, you are an important individual to us, and our goal is your success and satisfaction in learning.

COURSE LOAD

A student may not be enrolled in more than two courses at any one time. Students should check with their own campus to determine how many courses may be taken toward a degree there.

TIME LIMITS

You may enroll and begin work on a course at any time during the year. Your course will expire *thirteen months* from the date that you enroll. You may submit assignments at your own pace; however, you are encouraged to submit them on a regular basis.

If you are trying to complete your course in a short time, you must submit your assignments regularly. It is the educational responsibility of this institution to provide the teaching component of the independent study learning experience. Thus, we reserve the right to limit the number of assignments a student may submit within a short period of time so that the instructor's regular comments and guidance may be returned for the student's benefit as he or she progresses through the course. Students may not submit so large a number of assignments in so short a time that the teaching component is virtually bypassed. An average completion time for students who are steadily working on a course is two to three months. Creative writing courses usually require a minimum of five months.

If you are meeting a deadline, allow two weeks for your grade to reach the Central Records office of the UNC campus from which your course is offered after you have taken your exam. If you need to have a transcript sent to another institution, allow additional time. *It is the student's responsibility to meet all requirements for completing the course prior to his deadline.*

Your instructor may have pressing time commitments, especially near the end of a semester or a summer session, causing delays in the usual return of graded assignments. During holidays and summers, instructors may be out of town. Students trying to complete a course by a specific deadline should allow extra time in case their instructor is unable to grade their work quickly.

Students who are unable to complete their courses in the allotted thirteen months may obtain *one extension* of six months by paying a $5.00 *renewal fee.* In some cases, such as the non-credit Dental Assistant Program, renewal periods will vary according to the course.

TUITION AND FEES

Tuition and fees must be paid in full at the time of enrollment. Independent Study accepts Mastercharge and BankAmericard. Please complete the appropriate section on the application if you wish to use a charge card.

TUITION

	North Carolina Residents	Out-of-State Residents
2 semester hour course	$40.00	$52.00
3 semester hour course	60.00	78.00
4 semester hour course	80.00	104.00

POSTAGE

To cover the cost of postage expended in the delivery of course materials and graded assignments, please include the appropriate postage from the chart below with your application and tuition. It is suggested that overseas students include postage for Air Mail, since Surface Mail often takes 2 to 3 months. **Include either Air Mail or Surface postage for the total of both your graded assignments and course materials.**

	Surface Mail		Air Mail	
Domestic				
Graded assignments	$4.80		$ 6.50	
Course materials	1.70	(United Parcel	12.50	
Total	$6.50	Service)	$19.00	
Foreign				
Graded assignments	$7.50		$16.00	
Course materials	1.50		16.00	(Air Parcel
Total	$9.00		$32.00	Post)

OTHER FEES

Additional charges may be made for special materials and services for a few courses. These fees will be indicated in the course description.

GRADES

The grading system of the campus offering an independent study course will be used. The following grading systems are currently in effect: UNC-Chapel Hill, Appalachian State, UNC-Greensboro and East Carolina—A, B, C, D, F; NCSU—A, B, C, NC (No Credit).

If an instructor finds that the English composition of a student taking a Chapel Hill course is below the campus standard, he may add a composition condition (cc) to the final grade of that student. Credit will not be granted for the course until the cc is removed. A cc may be removed by the completion of English 0 either by correspondence or on the Chapel Hill campus.

Grades are recorded at the Central Records office of the campus offering the course.

STANDARDS

Independent Study places upon all enrolling students the responsibility for adhering to a standard of honesty and self-discipline. Students are expected to do their own work in all aspects of their course. Your signature on your application certifies that you agree to maintain this standard.

EXAMINATIONS

A final supervised examination must be passed if credit is to be given. Examinations may be supervised at an accredited college, university, community college, or technical institute which is accessible to the student. Students are asked to sign a pledge when they take examinations certifying that they have neither given nor received aid while taking the exam. All assignments must be submitted for grading prior to taking a course examination.

TEXTBOOKS

A bookstore of over 350 different volumes is maintained for the use of Independent Study students. Books are offered at competitive prices. You may purchase books for your course anywhere you desire, but if you purchase them from us, we will make every effort to mail them promptly. Should you choose to purchase them elsewhere, you should wait until you receive your course syllabus to be sure that you buy the correct edition of your texts.

Required texts are listed with each course. PUBLISHER'S PRICES ARE SUBJECT TO CHANGE; thus our prices are subject to change without notice.

If you wish to secure the required texts from us, please complete the Book Order form which is included on the application for enrollment, or send us a letter. Books may be sent C.O.D., but we suggest ordering them prepaid. If supplementary reading materials or books for book reports are not available to you locally, you may contact our office for assistance.

LIBRARY SERVICES

North Carolina residents having trouble locating supplementary textbooks are encouraged to ask their local librarian to request an Inter-Library Loan from the North Carolina State Library. Students who wish to use library facilities at NCSU may do so by verbally identifying themselves as correspondence students. Students may use the UNC-Chapel Hill libraries by obtaining a library card from the Independent Study offices.

SELLING TEXTS

Our bookroom will repurchase texts if they are in good condition and are still in use with our courses. Students wishing to sell their books should contact our bookroom before mailing the books to us to see if they can be repurchased. When returning books, be sure to include your name and current address.

ADDRESS OR NAME CHANGE

If your address or name changes during the time you are enrolled, please send the name and address under which you enrolled, your new name and address, the date, and the course in which you are enrolled to Independent Study.

COUNSELING

A staff member of Independent Study is available to counsel any student who chooses to use this service when a need arises. Students having difficulty in or failing a course may want to write Independent Study for assistance. An office appointment can be arranged if it is desired.

Students who are interested in improving their study habits may want to obtain the following publications from the Independent Study bookroom. *Continuing Your Education,* by Cyril O. Houle, may be rented for 2 months for $1.10. *How to Study,* by Thomas F. Staton, may be purchased for $1.00.

REFUNDS

If for any reason you should decide that you must drop your course, complete the form in the back of this catalog and mail it to Independent Study. Partial refunds will be granted providing the request is made within *TWO MONTHS* of the enrollment date.

TRANSFERS

A student may transfer from one course to another if the request is made within *TWO MONTHS* from the enrollment date. The student must pay a fee of $8.00 plus $2.00 for each graded assignment in the course being dropped. New textbooks may be purchased from the Independent Study bookroom. The bookroom will consider repurchase of the texts from the original course at a percentage of their original cost, depending on their condition. Enrollments may not be transferred from one student to another.

COMBINING CAMPUS AND INDEPENDENT STUDY

If you are attending a campus session at any institution, you must have the written approval of your Academic Dean sent to the Independent Study offices for each semester or summer session you are enrolled in order to continue working on your course.

If you do not want to continue with your independent study course while enrolled for residence work, or if you are unable to secure permission, you may let us know each semester or summer session you are in residence, and request that additional time be allowed to complete the course later. If you fail to let us know you are in residence without permission, your course will expire thirteen months from the day you enroll.

You may submit assignments during official school holidays and semester breaks without permission.

CREDIT

Degree Credit — Credits earned through Independent Study may be used toward a degree, providing the course is applicable to the individual student's requirements. *Students who are completing a degree program at any institution should check with their academic advisor or dean prior to enrolling in a course to make sure the credits will be acceptable.*

Non-Credit — Those who do not desire or expect credit are permitted to register for any course for which they are qualified. Non-credit students are given the same careful instruction as those who study for credit. No permanent record of the grade will be made.

FINANCIAL AID

1. Student Aid

Loans and a few scholarships (for students with exceptional academic records) may be available to students who have financial need. For information and application blanks, write to the Director of Student Aid at the campus from which you are earning your degree.

2. Vocational Rehabilitation

Under certain circumstances, the Vocational Rehabilitation Division of the State Department of Public Instruction will pay the fees for those who have a physical disability. For full information, contact the Director in Raleigh, N. C.

3. Veterans

Effective January 1, 1973, all veterans, eligible wives and widows who intend to pursue a course by correspondence should complete a special application and send it to Independent Study accompanied by payment for the course and a signed and dated enrollment agreement. The enrollment agreement is not effective unless the applicant, after the expiration of 10 days following the signing of the agreement, submits a written statement of affirmation declaring his or her intent to be enrolled in the course selected. (The dates of beginning the agreement and the affirmation are not to be included in counting the 10 days.) When the statement of affirmation is received in this office, we will credit the payment to the student's account, process the application, and send the materials to the student.

All veterans, eligible wives, and widows should contact Independent Study and request the special application and other papers for enrolling in correspondence courses. By following this procedure, 90 percent of the course fees will be reimbursed to the eligible student by the Veterans Administration Office as the student progresses through his course.

NOTE: If you have any questions about your eligibility or the acceptability of the selected course in your over-all educational program, contact the VA Regional Office in your state of residence.

4. In-Service Teacher Education Program

North Carolina teachers may earn certificate renewal credits by independent study. For information on tuition assistance under the In-Service Teacher Education Program, interested teachers should contact their employing Superintendent's office for consultation and clarification of existing policies before they enroll in a course.

The State Department of Public Instruction in North Carolina accepts credit earned before September 1 for that teaching year. Teachers needing credit for North Carolina certification should arrange to complete courses and examinations by August 15 in order to have credit reported by September 1. For full information about certification requirements, write the State Department of Public Instruction.

5. Inmates

Inmates in the North Carolina Correction System who are unable to pay course fees may be eligible for enrollment under the OUTREACH TO INMATES program. Information on eligibility and enrollment procedures can be secured by contacting:

Educational Services Section
Office of Correction
831 West Morgan St
Raleigh, NC 27603

TRANSCRIPTS

If you need a transcript by a particular date, you must arrange your work so that you can take the examination at least *two weeks* in advance of your deadline. *Independent Study cannot guarantee that a grade will be received by a particular date unless the student completes his assigned work and examination well in advance of that date.*

Request for transcript forms are included with examinations. Transcripts should be requested from the Records Office of the campus from which credit is earned. (Transcripts for NCSU courses completed prior to June 1, 1975, should be requested from the Division of Continuing Education,

1911 Building, NC State University, Raleigh, NC 27607. Transcripts for NCSU courses completed after June 1, 1975, should be requested from the Records Office on the NCSU campus.) There may be a small fee for transcripts.

WITHDRAWAL

You may withdraw from a course at any time; however, you will receive a refund only if you officially withdraw within **two months** of your enrollment date. Please consider carefully before dropping your course. If you decide to complete it later, you will be charged full tuition. If our staff can be of assistance, please let us know.

Partial refunds will be granted providing the request is made within **TWO MONTHS** of the enrollment date, which is the date your invoice was typed. Refunds of **TUITION ONLY** will be made: $19.00 will be deducted for the expense in processing each enrollment, plus $2.00 for each graded assignment. If a personal check was used for payment, allow six weeks before a refund is processed. This office can not guarantee repurchase of textbooks. Please indicate your desire to return books for credit on the withdrawal form. We will let you know if we are able to repurchase your texts. You may keep all materials, except those rented from this office. Please return all rental materials immediately, and clear your account.

WITHDRAWAL FORM

Date of Enrollment _____

Name _____

Address _____

_____

I would like to request that my course, _____, be discontinued as of this date. I am _____am not_____eligible for a refund of tuition. I would like to return my textbooks for credit. _____ I understand that I must pay complete fees again if I decide to re-enroll.

OFFICE USE ONLY

Account _____ Credit memo _____

Enrolled _____ Refund check number _____

Course fees _____ Date _____

_____

_____

Graded
Assignments _____

_____

Student _____

Course _____

Date _____

REQUEST FOR NEW COURSES

Your suggestions for new courses and new kinds of programs will be used when we plan additions to our offerings. Please feel free to offer suggestions using the form below.

I would like to suggest that you offer the following courses or programs:

Name _____

Address _____

ADDITIONAL INDEPENDENT STUDY OPPORTUNITIES

CREDIT BY EXAMINATION

Credit for some courses offered from the Chapel Hill campus may be earned by passing an examination. Approval of Independent Study and the department involved is necessary for a student to qualify for credit by examination. Grades for courses taken by exam will be reported as "by examination," and will count as hours toward graduation but will not affect the quality point average.

Interested students should request additional information and application forms from Independent Study. The fee for credit by exam is $20.00.

INDEPENDENT READING PROGRAM

Another alternative for persons interested in non-credit study is the Independent Reading Program. IRP is a program for adults who desire to continue their education through planned reading after their full time or formal schooling is over and who seek some direction in their self-study.

For further information write:

Community Adult Education
218 Abernethy Hall
UNC Extension Division
Chapel Hill, NC 27514

COURSES BY NEWSPAPER

A number of interdisciplinary courses are offered for credit by various campuses of the University of North Carolina system through local newspapers. For information regarding courses currently available, please contact the office of continuing education or extension at the campus of your choice.

COMPUTER SCIENCE COURSE BY TELEVISION

North Carolina State University is planning to offer CSC 200, Introduction to Computers and Their Uses, as a television course in the Spring of 1976. The course will be offered by means of a 20-part series, "Making It Count," to be shown on the UNC-TV network, and will be available both for credit and non-credit students. Inquiries should be directed to Industrial Extension Service, 133 Daniels Hall, North Carolina State University, Raleigh, N.C. 27607. Telephone: (919) 737-2356.

OTHER UNIVERSITIES

The University of North Carolina is a member of the National University Extension Association, the professional organization designed to guide in the development, maintenance and advancement of university extension services. UNC Independent Study belongs to the Independent Study Division of the Association. Each institution affiliated with the NUEA is accredited by the region in which it is located, and bases all educational programs upon standards for higher education in that state and region.

Two booklets published by NUEA may be helpful to you in locating courses and programs not available through UNC Independent Study. *A Guide to Independent Study Through Correspondence Instruction* lists correspondence and independent study courses offered by 73 institutions of higher education for college credit, certificates of achievement or personal enrichment. *A Directory of U.S. College and University Degrees for Part-Time Students* lists 2,848 degrees at 1,277 institutions in which the degree can be completed through part-time study. The booklets may be obtained by sending $1.00 for the *Guide* and $1.95 for the *Directory* to National University Extension Association, Department 202, Suite 360, One Dupont Circle, Washington, D.C. 20036.

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